

Title (en)
OPTIMIZING SEGMENT ROUTING PATHS USING SEGMENT IDENTIFIERS

Title (de)
OPTIMIERUNG VON SEGMENTROUTINGPFADEN UNTER VERWENDUNG VON SEGMENTIDENTIFIKATOREN

Title (fr)
OPTIMISATION DE CHEMINS DE ROUTAGE DE SEGMENTS À L'AIDE DES IDENTIFIANTS DES SEGMENTS

Publication
EP 4252394 A1 20231004 (EN)

Application
EP 21827456 A 20211117

Priority
• US 202017106651 A 20201130
• US 2021059739 W 20211117

Abstract (en)
[origin: US2022174016A1] Techniques for optimizing segment routing (SR) paths using segment identifiers (SIDs) are disclosed, including determining a packet is to be sent from a first node to a second node of a network using an SR method. The techniques may also include determining a segment quantization factor that is representative of a first number of SIDs that are included in a segment quantization interval. Based at least in part on the segment quantization factor and a cost constraint, an SR path defined by a second number of SIDs to send the packet may be determined. The second number of SIDs may be associated with maximizing the SIDs included in individual ones of segment quantization intervals. The techniques further include modifying the packet to include at least the second number of SIDs and causing the packet to flow from the first node to the second node via the SR path.

IPC 8 full level
H04L 12/46 (2006.01); **H04L 45/00** (2022.01)

CPC (source: EP US)
H04L 12/4625 (2013.01 - EP); **H04L 45/123** (2013.01 - EP); **H04L 45/124** (2013.01 - EP); **H04L 45/38** (2013.01 - US); **H04L 45/50** (2013.01 - EP); **H04L 45/507** (2013.01 - EP); **H04L 47/2441** (2013.01 - US); **H04L 47/2483** (2013.01 - US); **H04L 47/28** (2013.01 - EP); **H04L 47/33** (2013.01 - US); **H04L 2101/375** (2022.05 - US)

Citation (search report)
See references of WO 2022115297A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
US 11411876 B2 20220809; **US 2022174016 A1 20220602**; CN 116547952 A 20230804; EP 4252394 A1 20231004; US 11909654 B2 20240220; US 2022345413 A1 20221027; WO 2022115297 A1 20220602

DOCDB simple family (application)
US 202017106651 A 20201130; CN 202180073805 A 20211117; EP 21827456 A 20211117; US 2021059739 W 20211117; US 202217859664 A 20220707